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(पहला पुनरीक्षण)

Indian Standard

ROLLING BEARINGS — CYLINDRICAL ROLLER BEARINGS, SEPARATE THRUST COLLARS — BOUNDARY DIMENSIONS — SPECIFICATION

(First Revision)

ICS 21.100.20

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BUREAU OF INDIAN STANDARDS
MANAK BHAVAN, 9 BAHADUR SHAH ZAFAR MARG
NEW DELHI 110002

July 1999

Price Group 2

Rolling Bearings Sectional Committee, LM 12

NATIONAL FOREWORD

This Indian Standard (First Revision) which is identical with ISO 246 : 1995 'Rolling bearings — Cylindrical roller bearings, separate thrust collars — Boundary dimensions' issued by the International Organization for Standardization (ISO), was adopted by the Bureau of Indian Standards on the recommendation of the Rolling Bearings Sectional Committee and approval of the Light Mechanical Engineering Division Council.

The original standard was published in 1992 by adopting ISO 246 : 1978 'Cylindrical roller bearings — Separate thrust collars — Boundary dimensions'. The first revision of this standard has been taken up to align with the latest version of ISO 246.

The text of ISO Standard has been approved as suitable for publication as Indian Standard without deviations. Certain conventions are, however, not identical to those used in Indian Standards. Attention is particularly drawn to the following:

a) Wherever the words 'International Standard' appear referring to this standard, they should be read as'Indian Standard'.

b) Comma (,) has been used as a decimal marker while in Indian Standards, the current practice is to use a full stop (.) as the decimal marker.

In the adopted standard, reference appears to certain International Standards for which Indian Standards also exist. The corresponding Indian Standards which are to be substituted in their place are listed below along with their degree of equivalence for the editions indicated:

International Standard	*Corresponding Indian Standard*	*Degree of Equivalence*
ISO 15 : 1981	IS 5669 : 1987 General plan of boundary dimensions for radial rolling bearings (*first revision*)	Identical
ISO 582 : 1995	IS 5934 : 1999 Rolling bearings — Chamfer dimensions — Maximum values — Specification (*second revision*)	do

For the purpose of deciding whether a particular requirement of this standard is complied with, the final value, observed or calculated, expressing the result of a test or analysis, shall be rounded off in accordance with IS 2 : 1960 'Rules for rounding off numerical values (*revised*)'. The number of significant places retained in the rounded off value should be the same as that of the specified values in this standard.

Indian Standard

ROLLING BEARINGS — CYLINDRICAL ROLLER BEARINGS, SEPARATE THRUST COLLARS — BOUNDARY DIMENSIONS — SPECIFICATION

(First Revision)

1 Scope

This International Standard specifies the width, the maximum outside diameter, the bore and the bore minimum chamfer of separate thrust collars for cylindrical roller bearings in diameter series 2, 3 and 4 as specified in ISO 15.

2 Normative references

The following standards contain provisions which, through reference in this text, constitute provisions of this International Standard. At the time of publication, the editions indicated were valid. All standards are subject to revision, and parties to agreements based on this International Standard are encouraged to investigate the possibility of applying the most recent editions of the standards indicated below. Members of IEC and ISO maintain registers of currently valid International Standards.

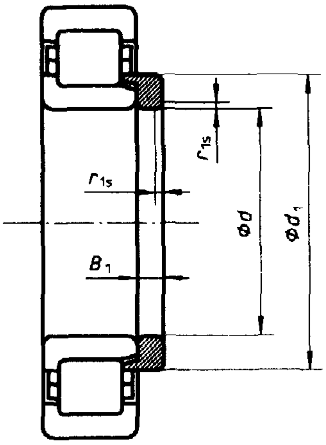
ISO 15:1981, *Rolling bearings — Radial bearings — Boundary dimensions — General plan.*

ISO 582:1995, *Rolling bearings — Chamfer dimensions — Maximum values.*

3 Symbols and dimensions

See figure 1 and table 1.

The dimensions given in table 1 corresponding to the symbols shown in figure 1 are nominal dimensions unless specified otherwise.



d = bore diameter

B_1 = width protruding beyond inner ring face

d_1 = outside diameter

r_{1s} = single chamfer dimension

Figure 1

Table 1 — Dimensions

Dimensions in millimetres

	Diameter series								
	2			3			4		
d	B_1	d_1 max.	$r_{1s\,min}$ 1)	B_1	d_1 max.	$r_{1s\,min}$ 1)	B_1	d_1 max.	$r_{1s\,min}$ 1)
15	2,5	22	0,3	—	—	—	—	—	—
17	3	26	0,3	3	31	0,6	—	—	—
20	3	30	0,6	4	35	0,6	—	—	—
25	3	35	0,6	4	41	1,1	6	51	1,5
30	4	43	0,6	5	49	1,1	7	56	1,5
35	4	49	0,6	6	55	1,1	8	62	1,5
40	5	55	1,1	7	61	1,5	8	71	2
45	5	60	1,1	7	69	1,5	8	78	2
50	5	65	1,1	8	74	2	9	86	2,1
55	6	72	1,1	9	82	2	10	92	2,1
60	6	79	1,5	9	91	2,1	10	100	2,1
65	6	87	1,5	10	96	2,1	11	106	2,1
70	7	91	1,5	10	107	2,1	12	115	3
75	7	96	1,5	11	110	2,1	13	122	3
80	8	105	2	11	121	2,1	13	129	3
85	8	110	2	12	127	3	14	136	4
90	9	116	2	12	133	3	14	144	4
95	9	123	2,1	13	141	3	15	158	4
100	10	130	2,1	13	147	3	16	167	4
105	10	136	2,1	13	154	3	16	170	4
110	11	144	2,1	14	163	3	17	176	4
120	11	155	2,1	14	175	3	17	190	5
130	11	170	3	14	185	4	18	208	5
140	11	182	3	15	204	4	18	226	5
150	12	195	3	15	214	4	20	236	5
160	12	208	3	15	227	4	20	249	5
170	12	225	4	16	246	4	20	269	5
180	12	236	4	17	256	4	23	281	6
190	13	246	4	18	268	5	23	294	6
200	14	260	4	18	283	5	24	305	6
220	15	287	4	20	311	5	26	340	6
240	16	316	4	22	337	5	28	370	6
260	18	343	5	24	365	6	—	—	—

1) Smallest permissible single chamfer dimension of r_{1s}. The corresponding maximum chamfer dimensions are given in ISO 582.

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